Claims

[c1]

1. A method for efficiently storing components of one or more composite graphic pages comprising the steps of:

parsing a description of each of said composite pages and storing said parsed description;

opening one or more input files and uniquely identifying resources used on component pages described within that file;

copying said resources required by said component pages to an output file, and eliminating duplicate resources, such that each unique resources is copied to said output file only once;

creating said one or more composite graphic pages with references to said resources in said output file; and

copying said one or more composite graphic pages to said output file.

[c2]

2. The method of claim 1 wherein said description of said composite pages are in the form of a compositing language.

[c3]

3 The method of claim 2 wherein said compositing language is selected from a group comprising ASCII text, pdfExpress script, PPML and the Barco Book Ticket Language.

[c4]

4 The method of claim 1 further comprising the step of copying resources unused by said one or more composite graphic pages to said output file.

[c5]

5 The method of claim 1 further comprising the step of copying said description of each of said composite pages to said output file.

[c6]

6. A method for creating a compressed PDF file containing one or more composite PDF pages comprising the steps of:

parsing a description of each of said composite pages and storing said parsed description;

opening one or more input PDF files and uniquely identifying Cos objects used by PDF pages defined by PDF content streams within said one or more input PDF files; copying said Cos objects required by said composite pages to an output file, and eliminating duplicate Cos objects, such that

[c12]

each unique Cos object is copied to said output file only once; creating a PDF content stream for said one or more composite graphic pages, based on said stored description, which includes references to said Cos objects in said output file; and copying said PDF content stream of said one or more composite graphic pages to said output file.

- [c7] 7 The method of claim 6 wherein said description of said composite pages are in the form of a compositing language.
- [c8] 8. The method of claim 7 wherein said compositing language is selected from a group comprising ASCII text, pdfExpress script, PPML and the Barco Book Ticket Language.
- [c9] 9. The method of claim 6 further comprising the step of copying Cos objects unused by said one or more composite graphic pages to said output file.
- [c10] 10. The method of claim 7 further comprising the step of copying said compositing language describing each of said composite pages to said output file.
- [c1] 11. The method of claim 6 further comprising the step of assigning unique identifiers to said Cos objects as they are copied to said output file.
 - 12. The method of claim 11 wherein said PDF content stream for said one or more composite graphic pages is constructed as a Cos array-type object.
- [c13] 13. The method of claim 12 wherein said Cos array-type objects containing said PDF content streams reference said copied Cos objects using said unique identifiers.
- [c14] 14. The method of claim 6 further wherein said composite graphic pages comprise a base page and zero or more overlaid pages.
- [c15] 15. The method of claim 14 wherein a PDF rotation is applied to said base page.
- [c16] 16. The method of claim 15 wherein said zero or more overlaid pages are modified by a clipping function.

- [c17] 17. The method of claim 15 wherein said zero or more overlaid pages are modified by a two-dimensional matrix transformation.
- [c18] 18. The method of claim 15 wherein said zero or more overlaid pages are modified by a clipping function and a two-dimensional matrix transformation.
- [c19] 19. The method of claim 18 wherein said clipping function and said two-dimensional matrix are copied to said output file as part of said PDF content stream for said one or more composite graphic pages